

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Regarding claim 1, seventh paragraph, fifth line, "for outputting said combined output" should be changed to -for outputting a combined output-

Regarding claim 3, first paragraph, line <sup>2</sup>~~1~~ and second paragraph, line 1, respectively, "a digital predistorter" should be changed to -a first digital predistorter- and "from said digital [predistorter]" should be changed to -from said first digital [predistorter]-

Regarding claim 3, eighth paragraph, lines 1, "a second DA converter for converting said predistorted pilot signal to an analog signal" should be changed to - a second DA converter for converting said predistorted pilot signal to an analog predistorted pilot signal-

Regarding claim 3, tenth paragraph, lines 2 "and said analog predistorted transmission signal" should be changed to - and said analog predistorted signal-


Regarding claim 4, second paragraph, line 1, "from said digital [predistorter]" should be changed to -from said first digital [predistorter]-

Regarding claim 12, seventh paragraph, line 1; claim 13, seventh paragraph, line 1, and claim 22, line 2 "a pilot signal generator for generating said digital pilot signal" should be changed to - a pilot signal generator for generating a digital pilot signal-

IN THE SPECIFICATION

Please amend the paragraph beginning at page 15, line 25, as follows:

The digital predistorter control part 50 comprises a distortion component detecting part 51 and an odd-order distortion characteristic control part 52. The distortion component detecting part 51 is made up of third-, fifth- and seventh-order distortion component extractors 51A, 51B and 51C. The odd-order distortion characteristic control part 52 is made up of third-, fifth- and seventh-order distortion controllers 52A, 52B and 52C. The odd-order distortion component extractors 51A, 51B and 51C can be formed, for example, by band-pass filters, by which third-, fifth- and seventh-order distortion components are extracted. The odd-order distortion controllers 52A, 52B and 52C control the phase adjusters 23A, 23B, 23C and the ~~variable~~-gain adjusters 24A, 24B, 24C that adjust the phases and amplitudes of the outputs from the distortion component generators 22A, 22B and 22C corresponding to the controllers, respectively.

Please amend the paragraph beginning at page 17, line <sup>21</sup>~~25~~, as follows: 10/9/06 

The pilot signal component containing the distortion components is extracted by the directional coupler 38A and the band-pass filter 38B. The extracted pilot signal component is downconverted by the mixer 41 with the local oscillation signal from the local oscillator 33. The input signal to the control part 50, shown in Fig. 6-Row E, is a digitized version of the downconverted signal by the AD converter 44. For example, when distortion compensation for the third-order distortion components  $P_{D3H}$  and  $P_{D3L}$  is insufficient at the output of the power amplifier 37, they remain unremoved to such an extent as not to be negligible. In the control part 50 one of the third-order distortion components,  $P_{D3H}$  in this case, is extracted by the third-order distortion component extractor 51A. The third distortion controller 52A uses the extracted tone signal to control the phase and amplitude of the output from the third